Author Index

Abbondanza, A., see Stirpe, F. (1158) 33
Abe, H., see Aoki, K. (1158) 251
Abousalham, A., Riviere, M., Teissere, M. and Verger, R.
Improved purification and biochemical characterization of phospholipase D from cabbage (1158) 1
Ainaga, M.J., see Portolés, M.T. (1158) 287
Akiyama, S.-i., see Lchikawa-Haraguchi, M. (1158) 201
Antolini, F., see Nicolini, C. (1158) 273
Aoki, K., Nishimura, K., Abe, H., Maruta, H., Sakagami, H., Hatano, T., Okuda, T., Yoshida, T., Tsai, Y.-J., Uchiumi, F. and Tanuma, S.-i.
Novel inhibitors of poly(ADP-ribose) glycohydrolase (1158) 251
Atherton, S.J., Dillon, J. and Gaillard, E.R.
A pulse radiolysis study of the reactions of 3-hydroxykynurenine and kynurenine with oxidizing and reducing radicals (1158) 75
Ayuso, M.S., see Martín-Requero, A. (1158) 166

Beissinger, R.L., see Zheng, S. (1158) 65
Berg, K., Prydz, K. and Moan, J.
Photochemical treatment with the lysosomally localized dye tetra(4-sulfonatophenyl)porphine results in lysosomal release of the dye but not of β-*N*-acetyl-D-glucosaminidase activity (1158) 300
Bolognesi, A., see Stirpe, F. (1158) 33
Borchardt, R.T., see Schöneich, C. (1158) 307
Bravo, P., see Villanueva, G.R. (1158) 8

Catasti, P., see Nicolini, C. (1158) 273
Chang, M.-C., see Huang, T.-F. (1158) 293
Chen, D. and Lee, K.H.
Biodistribution of calcitonin encapsulated in liposomes in mice with particular reference to the central nervous system (1158) 244
Chen, S.-T., see Chuang, L.-C. (1158) 209
Chuang, L.-C., Chen, S.-T. and Ya, C.
Conformation of a cyclic opioid peptide analog by NMR and molecular dynamics simulation (1158) 209
Ciprés, G., see Martín-Requero, A. (1158) 166

Dalas, E., see Paschalakis, P. (1158) 129
Day, I.N.M., see Harrington, C.R. (1158) 120
DeLuca, H.F., see Yang, S. (1158) 279
Demandre, C., see Galle, A.M. (1158) 52
Demicheli, C. and Garnier-Suillerot, A.
Mithramycin: a very strong metal chelating agent (1158) 59
Derbel, M., Igarashi, T. and Satoh, T.
Differential induction of glutathione *S*-transferase subunits by phenobarbital, 3-methylcholanthrene and ethoxyquin in rat liver and kidney (1158) 175
Dillon, J., see Atherton, S.J. (1158) 75
Dodge, G.R., see Ponnappa, B.C. (1158) 113
Doi, K., see Morrill, G.A. (1158) 146
Dubacq, J.P., see Galle, A.M. (1158) 52
Dudkowski, B., see Ponnappa, B.C. (1158) 113

El-Mir, M.Y.A., see Villanueva, G.R. (1158) 8
Erlichman, J., see Morrill, G.A. (1158) 146
Erokhin, V., see Nicolini, C. (1158) 273

Facci, P., see Nicolini, C. (1158) 273
Falasca, A.I., see Stirpe, F. (1158) 33
Fukumori, Y., see Tamegai, H. (1158) 237
Funae, Y., see Ohishi, N. (1158) 227
Furuichi, Y., see Kamemura, K. (1158) 181
Furukawa, T., see Lchikawa-Haraguchi, M. (1158) 201

Gaillard, E.R., see Atherton, S.J. (1158) 75
Galle, A.M., Joseph, M., Demandre, C., Guerche, P., Dubacq, J.P., Oursel, A., Mazliak, P., Pelletier, G. and Kader, J.C.
Biosynthesis of γ-linolenic acid in developing seeds of borage (*Borago officinalis* L.) (1158) 52
Garnier-Suillerot, A., see Demicheli, C. (1158) 59
Gąsior, E., see Grankowski, N. (1158) 194
Gillespie, J.I., see Morgan, J.M. (1158) 98
González-Manchón, C., see Martín-Requero, A. (1158) 166
Grankowski, N., Gąsior, E. and Issinger, O.-G.
Synthetic peptides and ribosomal proteins as substrate for 60S ribosomal protein kinase from yeast cells (1158) 194
Greenwell, J.R., see Morgan, J.M. (1158) 98
Guerche, P., see Galle, A.M. (1158) 52
Gupta, R.K., see Schanne, F.A.X. (1158) 257

Hanlon, D.W., Ying, C. and Ordal, G.W.
Purification and reconstitution of the methyl-accepting chemotaxis proteins from *Bacillus subtilis* (1158) 345
Hanzlik, R.P., see Liu, S. (1158) 264
Harding, J.J., see Riley, M.L. (1158) 107
Harrington, C.R., Quinn, G.B., Hurt, J., Day, I.N.M. and Wischik, C.M.
Characterisation of an epitope specific to the neuron-specific isoform of human enolase recognised by a monoclonal antibody raised against a synthetic peptide corresponding to the C-terminus of β/A4-protein (1158) 120
Hatano, T., see Aoki, K. (1158) 251
Higuchi, T., Imamura, Y. and Otagiri, M.
Kinetic studies on the reduction of acetohexamide catalyzed by carbonyl reductase from rabbit kidney (1158) 23
Hiramoto, S., see Lchikawa-Haraguchi, M. (1158) 201
Hlavica, P. and Künzel-Mulas, U.
Metabolic *N*-oxide formation by rabbit-liver microsomal cytochrome *P*-4502B4: involvement of superoxide in the NADPH-dependent *N*-oxygenation of *N,N*-dimethylaniline (1158) 83
Hoek, J.B., see Ponnappa, B.C. (1158) 113
Holmes, R.P.
The absence of glyoxylate cycle enzymes in rodent and embryonic chick liver (1158) 47
Horiuchi, R., see Yokoi, T. (1158) 339
Huang, T.-F., Chang, M.-C. and Teng, C.-M.
Antiplatelet protease, kistomin, selectively cleaves human platelet glycoprotein Ib (1158) 293
Hurt, J., see Harrington, C.R. (1158) 120

Igarashi, T., see Derbel, M. (1158) 175
Imamura, Y., see Higuchi, T. (1158) 23
Imaoka, S., see Ohishi, N. (1158) 227
Iozzo, R.V., see Ponnappa, B.C. (1158) 113

Author Index

Abbondanza, A., see Stirpe, F. (1158) 33
Abe, H., see Aoki, K. (1158) 251
Abousalham, A., Riviere, M., Teissere, M. and Verger, R.
Improved purification and biochemical characterization of phospholipase D from cabbage (1158) 1
Ainaga, M.J., see Portolés, M.T. (1158) 287
Akiyama, S.-i., see Lchikawa-Haraguchi, M. (1158) 201
Antolini, F., see Nicolini, C. (1158) 273
Aoki, K., Nishimura, K., Abe, H., Maruta, H., Sakagami, H., Hatano, T., Okuda, T., Yoshida, T., Tsai, Y.-J., Uchiumi, F. and Tanuma, S.-i.
Novel inhibitors of poly(ADP-ribose) glycohydrolase (1158) 251
Atherton, S.J., Dillon, J. and Gaillard, E.R.
A pulse radiolysis study of the reactions of 3-hydroxykynurenine and kynurenine with oxidizing and reducing radicals (1158) 75
Ayuso, M.S., see Martín-Requero, A. (1158) 166

Beissinger, R.L., see Zheng, S. (1158) 65
Berg, K., Prydz, K. and Moan, J.
Photochemical treatment with the lysosomally localized dye tetra(4-sulfonatophenyl)porphine results in lysosomal release of the dye but not of β-*N*-acetyl-D-glucosaminidase activity (1158) 300
Bolognesi, A., see Stirpe, F. (1158) 33
Borchardt, R.T., see Schöneich, C. (1158) 307
Bravo, P., see Villanueva, G.R. (1158) 8

Catasti, P., see Nicolini, C. (1158) 273
Chang, M.-C., see Huang, T.-F. (1158) 293
Chen, D. and Lee, K.H.
Biodistribution of calcitonin encapsulated in liposomes in mice with particular reference to the central nervous system (1158) 244
Chen, S.-T., see Chuang, L.-C. (1158) 209
Chuang, L.-C., Chen, S.-T. and Ya, C.
Conformation of a cyclic opioid peptide analog by NMR and molecular dynamics simulation (1158) 209
Ciprés, G., see Martín-Requero, A. (1158) 166

Dalas, E., see Paschalakis, P. (1158) 129
Day, I.N.M., see Harrington, C.R. (1158) 120
DeLuca, H.F., see Yang, S. (1158) 279
Demandre, C., see Galle, A.M. (1158) 52
Demicheli, C. and Garnier-Suillerot, A.
Mithramycin: a very strong metal chelating agent (1158) 59
Derbel, M., Igarashi, T. and Satoh, T.
Differential induction of glutathione *S*-transferase subunits by phenobarbital, 3-methylcholanthrene and ethoxyquin in rat liver and kidney (1158) 175
Dillon, J., see Atherton, S.J. (1158) 75
Dodge, G.R., see Ponnappa, B.C. (1158) 113
Doi, K., see Morrill, G.A. (1158) 146
Dubacq, J.P., see Galle, A.M. (1158) 52
Dudkowski, B., see Ponnappa, B.C. (1158) 113

El-Mir, M.Y.A., see Villanueva, G.R. (1158) 8
Erlichman, J., see Morrill, G.A. (1158) 146
Erokhin, V., see Nicolini, C. (1158) 273

Facci, P., see Nicolini, C. (1158) 273
Falasca, A.I., see Stirpe, F. (1158) 33
Fukumori, Y., see Tamegai, H. (1158) 237
Funae, Y., see Ohishi, N. (1158) 227
Furuichi, Y., see Kamemura, K. (1158) 181
Furukawa, T., see Lchikawa-Haraguchi, M. (1158) 201

Gaillard, E.R., see Atherton, S.J. (1158) 75
Galle, A.M., Joseph, M., Demandre, C., Guerche, P., Dubacq, J.P., Oursel, A., Mazliak, P., Pelletier, G. and Kader, J.C.
Biosynthesis of γ-linolenic acid in developing seeds of borage (*Borago officinalis* L.) (1158) 52
Garnier-Suillerot, A., see Demicheli, C. (1158) 59
Gąsior, E., see Grankowski, N. (1158) 194
Gillespie, J.I., see Morgan, J.M. (1158) 98
González-Manchón, C., see Martín-Requero, A. (1158) 166
Grankowski, N., Gąsior, E. and Issinger, O.-G.
Synthetic peptides and ribosomal proteins as substrate for 60S ribosomal protein kinase from yeast cells (1158) 194
Greenwell, J.R., see Morgan, J.M. (1158) 98
Guerche, P., see Galle, A.M. (1158) 52
Gupta, R.K., see Schanne, F.A.X. (1158) 257

Hanlon, D.W., Ying, C. and Ordal, G.W.
Purification and reconstitution of the methyl-accepting chemotaxis proteins from *Bacillus subtilis* (1158) 345
Hanzlik, R.P., see Liu, S. (1158) 264
Harding, J.J., see Riley, M.L. (1158) 107
Harrington, C.R., Quinn, G.B., Hurt, J., Day, I.N.M. and Wischik, C.M.
Characterisation of an epitope specific to the neuron-specific isoform of human enolase recognised by a monoclonal antibody raised against a synthetic peptide corresponding to the C-terminus of β/A4-protein (1158) 120
Hatano, T., see Aoki, K. (1158) 251
Higuchi, T., Imamura, Y. and Otagiri, M.
Kinetic studies on the reduction of acetohexamide catalyzed by carbonyl reductase from rabbit kidney (1158) 23
Hiramoto, S., see Lchikawa-Haraguchi, M. (1158) 201
Hlavica, P. and Künzel-Mulas, U.
Metabolic *N*-oxide formation by rabbit-liver microsomal cytochrome *P*-4502B4: involvement of superoxide in the NADPH-dependent *N*-oxygenation of *N,N*-dimethylaniline (1158) 83
Hoek, J.B., see Ponnappa, B.C. (1158) 113
Holmes, R.P.
The absence of glyoxylate cycle enzymes in rodent and embryonic chick liver (1158) 47
Horiuchi, R., see Yokoi, T. (1158) 339
Huang, T.-F., Chang, M.-C. and Teng, C.-M.
Antiplatelet protease, kistomin, selectively cleaves human platelet glycoprotein Ib (1158) 293
Hurt, J., see Harrington, C.R. (1158) 120

Igarashi, T., see Derbel, M. (1158) 175
Imamura, Y., see Higuchi, T. (1158) 23
Imaoka, S., see Ohishi, N. (1158) 227
Iozzo, R.V., see Ponnappa, B.C. (1158) 113

Issinger, O.-G., see Grankowski, N. (1158) 194
Ito, A., Shimada, M. and Mori, Y.
Regulation of hyaluronate production by interleukin 1 in cultured human chorionic cells (1158) 91

Jones, T.B., see Washizu, M. (1158) 40
Joseph, M., see Galle, A.M. (1158) 52

Kader, J.C., see Galle, A.M. (1158) 52
Kajiwara, R., see Yokoi, T. (1158) 339
Kaler, K.V.I.S., see Washizu, M. (1158) 40
Kamata, K., see Ohba, S. (1158) 323
Kamata, Y., see Nishiki, T.-i. (1158) 333
Kamataki, T., see Yokoi, T. (1158) 339
Kamemura, K., Furuichi, Y., Umekawa, H. and Takahashi, T.
Purification and characterization of novel lectins from Great Northern bean, *Phaseolus vulgaris* L. (1158) 181
Kawaguchi, Y., see Yokoi, T. (1158) 339
Kinoshita, T., see Nakagami, T. (1158) 189
Kostellow, A.B., see Morrill, G.A. (1158) 146
Koutsoukos, P.G., see Paschalakis, P. (1158) 129
Kozaki, S., see Nishiki, T.-i. (1158) 333
Künzel-Mulas, U., see Hlavica, P. (1158) 83

Lchikawa-Haraguchi, M., Sumizawa, T., Yoshimura, A., Furukawa, T., Hiramoto, S., Sugita, M. and Akiyama, S.-i.
Progesterone and its metabolites: the potent inhibitors of the transporting activity of P-glycoprotein in the adrenal gland (1158) 201
Lee, K.H., see Chen, D. (1158) 244
Li, Z., Szittner, R. and Meighen, E.A.
Subunit interactions and the role of the *lux*A polypeptide in controlling thermal stability and catalytic properties in recombinant luciferase hybrids (1158) 137
Licastro, F., see Stirpe, F. (1158) 33
Liu, S. and Hanzlik, R.P.
The contribution of intermolecular hydrogen bonding to the kinetic specificity of papain (1158) 264
Lynn, S., see Morgan, J.M. (1158) 98

Maniatis, C., see Paschalakis, P. (1158) 129
Marin, J.J.G., see Villanueva, G.R. (1158) 8
Martín-Requero, A., Ciprés, G., González-Manchón, C., Ayuso, M.S. and Parrilla, R.
Interrelationships between ureogenesis and gluconeogenesis in perfused rat liver (1158) 166
Maruta, H., see Aoki, K. (1158) 251
Mazliak, P., see Galle, A.M. (1158) 52
McCormick, D.L., see Zheng, S. (1158) 65
Meighen, E.A., see Li, Z. (1158) 137
Miki-Noumura, T., see Ohba, S. (1158) 323
Moan, J., see Berg, K. (1158) 300
Morgan, J.M., Lynn, S., Gillespie, J.I. and Greenwell, J.R.
The induction of intracellular calcium activity in cultured human myometrial smooth muscle cells (1158) 98
Mori, Y., see Ito, A. (1158) 91
Morini, M.C., see Stirpe, F. (1158) 33
Morisawa, S., see Nakagami, T. (1158) 189
Morrill, G.A., Doi, K., Erlichman, J. and Kostellow, A.B.
Cyclic AMP binding to the amphibian oocyte plasma membrane: possible interrelationship between meiotic arrest and membrane fluidity (1158) 146

Nagayama, S., see Yokoi, T. (1158) 339
Nakagami, T., Toyomura, K., Kinoshita, T. and Morisawa, S.
A beneficial role of bile pigments as an endogenous tissue protector: Anti-complement effects of biliverdin and conjugated bilirubin (1158) 189
Nakano, M., see Noguchi, S. (1158) 217
Nicolini, C., Erokhin, V., Antolini, F., Catasti, P. and Facci, P.
Thermal stability of protein secondary structure in Langmuir-Blodgett films (1158) 273
Nishiki, T.-i., Ogasawara, J., Kamata, Y. and Kozaki, S.
Solubilization and characterization of the acceptor for *Clostridium botulinum* type B neurotoxin from rat brain synaptic membranes (1158) 333
Nishimura, K., see Aoki, K. (1158) 251
Noguchi, S. and Nakano, M.
Structural characterization of the N-linked carbohydrate chains from mouse zona pellucida glycoproteins ZP2 and ZP3 (1158) 217

Ogasawara, J., see Nishiki, T.-i. (1158) 333
Ohba, S., Kamata, K. and Miki-Noumura, T.
Stabilization of microtubules by dynein-binding in vitro. Stability of microtubule–dynein complex (1158) 323
Ohishi, N., Imaoka, S., Suzuki, T. and Funae, Y.
Characterization of two *P*-450 isozymes placed in the rat CYP2D subfamily (1158) 227
Okuda, T., see Aoki, K. (1158) 251
Ordal, G.W., see Hanlon, D.W. (1158) 345
Otagiri, M., see Higuchi, T. (1158) 23
Oursel, A., see Galle, A.M. (1158) 52

Pagani, R., see Portolés, M.T. (1158) 287
Parente, A., see Stirpe, F. (1158) 33
Parrilla, R., see Martín-Requero, A. (1158) 166
Paschalakis, P., Vynios, D.H., Tsiganos, C.P., Dalas, E., Maniatis, C. and Koutsoukos, P.G.
Effect of proteoglycans on hydroxyapatite growth in vitro: the role of hyaluronan (1158) 129
Pelletier, G., see Galle, A.M. (1158) 52
Perez-Barriocanal, F., see Villanueva, G.R. (1158) 8
Ponnappa, B.C., Dodge, G.R., Dudkowski, B., Hoek, J.B., Iozzo, R.V. and Rubin, E.
Stimulation of protein synthesis in isolated pancreatic acini from chronically ethanol-fed rats is due to alterations in post-transcriptional regulation (1158) 113
Portolés, M.T., Ainaga, M.J. and Pagani, R.
The induction of lipid peroxidation by *E. coli* lipopolysaccharide on rat hepatocytes as an important factor in the etiology of endotoxic liver damage (1158) 287
Prydz, K., see Berg, K. (1158) 300

Quinn, G.B., see Harrington, C.R. (1158) 120

Riley, M.L. and Harding, J.J.
The reaction of malondialdehyde with lens proteins and the protective effect of aspirin (1158) 107
Riviere, M., see Abousalham, A. (1158) 1
Rossi, C.A., see Stirpe, F. (1158) 33
Rubin, E., see Ponnappa, B.C. (1158) 113

Sakagami, H., see Aoki, K. (1158) 251
Satoh, T., see Derbel, M. (1158) 175
Savino, G., see Stirpe, F. (1158) 33
Schanne, F.A.X., Gupta, R.K. and Stanton, P.K.
^{31}P-NMR study of transient ischemia in rat hippocampal slices in vitro (1158) 257
Schöneich, C., Zhao, F., Wilson, G.S. and Borchardt, R.T.
Iron-thiolate induced oxidation of methionine to methionine sulfoxide in small model peptides. Intramolecular catalysis by histidine (1158) 307
Shimada, M., see Ito, A. (1158) 91
Shoubridge, E.A., see Tauskela, J.S. (1158) 155
Smith, C., see Yang, S. (1158) 279

Sprenger, G.A.
Two open reading frames adjacent to the *Escherichia coli* K-12 transketolase (*tkt*) gene show high similarity to the mannitol phosphotransferase system enzymes from *Escherichia coli* and various Gram-positive bacteria (1158) 103
Stanton, P.K., see Schanne, F.A.X. (1158) 257
Stirpe, F., Licastro, F., Morini, M.C., Parente, A., Savino, G., Abbondanza, A., Bolognesi, A., Falasca, A.I. and Rossi, C.A.
Purification and partial characterization of a mitogenic lectin from the latex of *Euphorbia marginata* (1158) 33
Stocker, R. and Suarna, C.
Extracellular reduction of ubiquinone-1 and -10 by human Hep G2 and blood cells (1158) 15
Storey, K.B., see Vazquez Illanes, M.D. (1158) 29
Suarna, C., see Stocker, R. (1158) 15
Sugita, M., see Lchikawa-Haraguchi, M. (1158) 201
Sumizawa, T., see Lchikawa-Haraguchi, M. (1158) 201
Suzuki, T., see Ohishi, N. (1158) 227
Szittner, R., see Li, Z. (1158) 137

Takahashi, T., see Kamemura, K. (1158) 181
Tamegai, H., Yamanaka, T. and Fukumori, Y.
Purification and properties of a 'cytochrome a_1'-like hemoprotein from a magnetotactic bacterium, *Aquaspirillum magnetotacticum* (1158) 237
Tanuma, S.-i., see Aoki, K. (1158) 251
Tauskela, J.S. and Shoubridge, E.A.
Response of the ^{23}Na-NMR double-quantum filtered signal to changes in Na^+ ion concentration in model biological solutions and human erythrocytes (1158) 155
Teissere, M., see Abousalham, A. (1158) 1
Teng, C.-M., see Huang, T.-F. (1158) 293
Toyomura, K., see Nakagami, T. (1158) 189
Tsai, Y.-J., see Aoki, K. (1158) 251
Tsiganos, C.P., see Paschalakis, P. (1158) 129

Uchiumi, F., see Aoki, K. (1158) 251
Umekawa, H., see Kamemura, K. (1158) 181

Vazquez Illanes, M.D. and Storey, K.B.
6-Phosphofructo-2-kinase and control of cryoprotectant synthesis in freeze tolerant frogs (1158) 29
Verger, R., see Abousalham, A. (1158) 1
Villanueva, G.R., El-Mir, M.Y.A., Perez-Barriocanal, F., Bravo, P. and Marin, J.J.G.
Effect of insulin and glucose load on bile lactate secretion by the isolated rat liver. Role of hepatic parenchyma heterogeneity (1158) 8
Vynios, D.H., see Paschalakis, P. (1158) 129

Wasan, D.T., see Zheng, S. (1158) 65
Washizu, M., Jones, T.B. and Kaler, K.V.I.S.
Higher-order dielectrophoretic effects: levitation at a field null (1158) 40
Wilson, G.S., see Schöneich, C. (1158) 307
Wischik, C.M., see Harrington, C.R. (1158) 120

Ya, C., see Chuang, L.-C. (1158) 209
Yamanaka, T., see Tamegai, H. (1158) 237
Yang, S., Smith, C. and DeLuca, H.F.
1α,25-Dihydroxyvitamin D_3 and 19-nor-1α,25-dihydroxyvitamin D_2 suppress immunoglobulin production and thymic lymphocyte proliferation in vivo (1158) 279
Ying, C., see Hanlon, D.W. (1158) 345
Yokoi, T., Nagayama, S., Kajiwara, R., Kawaguchi, Y., Horiuchi, R. and Kamataki, T.
Identification of protein disulfide isomerase and calreticulin as autoimmune antigens in LEC strain of rats (1158) 339
Yoshida, T., see Aoki, K. (1158) 251
Yoshimura, A., see Lchikawa-Haraguchi, M. (1158) 201

Zhao, F., see Schöneich, C. (1158) 307
Zheng, S., Zheng, Y., Beissinger, R.L., Wasan, D.T. and McCormick, D.L.
Hemoglobin multiple emulsion as an oxygen delivery system (1158) 65
Zheng, Y., see Zheng, S. (1158) 65